

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P417724

Luminaire Tested: **VHB-1215-N-UNV-L950-CD-U-LEVEL1**

Issue Date: 11/17/2020

Test Information

Test Method: LM-79-08
Report Number: P417724
Test Lab: INNOVATION CENTER(G3)
Issue Date: 11/17/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: VHB-1215-N-UNV-L950-CD-U-LEVEL1
Description: VHB LED HIGH BAY LUMINAIRE WITH NARROW DISTRIBUTION LENS
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10809.9 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 0.74 / 0.88
Luminous Opening: Rectangular (W 1.17' x L: 1.5' x H: 0')
CIE Type: Direct

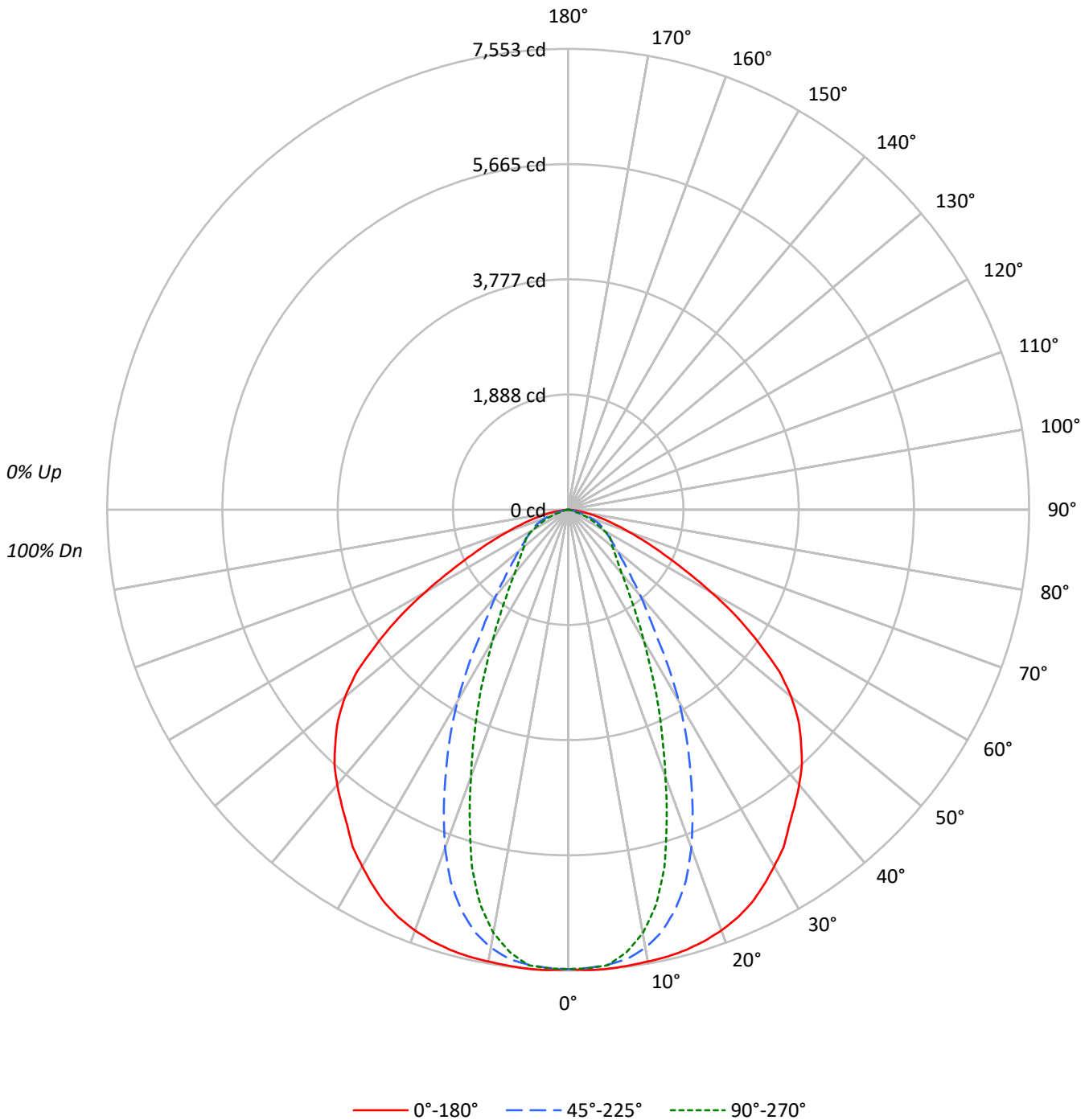
Input Watts (W): 80.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	66	76	70	65	73	68	64	71	67	63	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55					55			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46					46			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42					42			
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38					38			
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36					36			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46322	46322	46322
5°	46637	46221	46272
10°	46967	45528	44004
15°	47558	43180	38706
20°	48039	38626	30465
25°	48260	32143	23475
30°	47937	25726	17573
35°	47389	18926	13452
40°	47273	14770	10941
45°	46939	11884	9701
50°	45668	10128	9047
55°	40938	9110	9129
60°	33266	8564	8213
65°	25094	8303	6676
70°	19034	6881	4566
75°	14404	5171	2448
80°	10403	2550	2012
85°	6690	2188	1694



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.6	6.6
10°-20°	1883.2	17.4
20°-30°	2303.8	21.3
30°-40°	2067.0	19.1
40°-50°	1602.6	14.8
50°-60°	1189.5	11.0
60°-70°	717.4	6.6
70°-80°	286.2	2.6
80°-90°	51.7	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	4895.6	45.3
0°-40°	6962.6	64.4
0°-60°	9754.6	90.2
0°-90°	10809.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10809.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7531	7531	7531	7531	7531	
5°	7553	7506	7486	7464	7494	720
15°	7468	7264	6781	6277	6078	2110
25°	7111	6327	4736	3757	3459	3271
35°	6311	4638	2520	1926	1792	3961
45°	5396	2437	1366	1144	1115	4153
55°	3818	1302	850	821	851	3392
65°	1724	723	570	487	459	1759
75°	606	352	218	115	103	665
85°	95	39	31	26	24	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7531.1	7531.1	7531.1	7531.1	7531.1
2.5°	7552.8	7507.7	7518.8	7518.8	7521.2
5°	7553.4	7506.0	7486.1	7464.4	7494.3
7.5°	7536.4	7481.4	7426.4	7334.5	7315.2
10°	7520.0	7439.9	7289.5	7113.4	7045.5
12.5°	7503.6	7381.3	7087.0	6754.1	6637.1
15°	7468.5	7264.3	6781.1	6276.7	6078.4
17.5°	7414.1	7099.3	6395.5	5669.4	5364.6
20°	7339.2	6894.6	5901.1	4990.1	4654.3
22.5°	7240.9	6651.2	5324.8	4340.7	4029.4
25°	7111.0	6327.0	4736.2	3757.4	3459.0
27.5°	6938.4	5964.3	4183.9	3213.2	2916.6
30°	6749.5	5571.7	3622.2	2698.4	2474.3
32.5°	6564.0	5144.0	3057.6	2265.4	2105.1
35°	6311.2	4638.5	2520.5	1925.5	1791.5
37.5°	6096.5	4093.8	2136.1	1658.1	1561.6
40°	5887.6	3515.1	1839.5	1449.8	1362.6
42.5°	5667.6	2942.4	1565.1	1272.5	1221.1
45°	5396.2	2436.8	1366.2	1143.8	1115.2
47.5°	5117.1	2063.6	1184.8	1046.7	1024.5
50°	4772.5	1748.2	1058.4	950.8	945.5
52.5°	4359.4	1501.3	942.0	879.4	890.5
55°	3817.6	1302.4	849.5	820.9	851.3
57.5°	3287.6	1126.3	767.6	776.4	802.1
60°	2704.2	968.3	696.2	711.5	667.6
62.5°	2167.7	840.8	634.2	590.9	554.7
65°	1724.2	722.6	570.5	486.8	458.7
67.5°	1356.8	616.1	481.5	398.4	363.3
70°	1058.4	519.5	382.6	310.1	253.9
72.5°	807.4	434.1	303.1	187.8	150.4
75°	606.1	351.6	217.6	114.7	103.0
77.5°	434.1	263.9	127.0	83.7	79.0
80°	293.7	172.6	72.0	61.4	56.8
82.5°	183.1	95.4	49.1	43.3	40.4
85°	94.8	39.2	31.0	26.3	24.0
87.5°	33.3	17.6	14.0	11.1	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)